AUTHOR INDEX

Volumes 79, 80, 81 and 82, 1990

ADIGA, K. C., and SHAH, D. O.:
On the Vaporization Behavior of Water-in-Oil Microemulsions, 80: 412

AGGARWALL, S. K.: see Mawid, M.

ALDÉN, MARCUS: see Bengtsson, Per -Eric

ANNAMALAI, KALYAN: see Ryan, William

ARMSTRONG, R. C., and MARGOLIS, S. B.:
Erratum: Hydrodynamic and Reactive/Diffusive Instabilities in a Dynamic Model of Liquid Propellant Combustion - II. Inviscid Fluid Motions, 77: 123-138 (1989), 80: 214

ATREYA, ARVIND: see Tzeng, L. S.

BAEK, S. W., SICHEL, M., and KAUFFMAN, C. W.:
Asymptotic Analysis of the Shock Wave Ignition of Dust Particles, 81: 219

BAEK, S. W.:
Ignition of Particle Suspensions in Slab Geometry, 81: 366

BAEK, SEUNG WOOK, and SEUNG, SUNGPYO:
Parametric Analysis on the Post-Shock Wave Relaxation Zone of Carbon Particle-Laden Oxygen Gas, 80: 126

BAILLOT, F.: see Durox, D.

BANKS, W. H. H.: see Zaturska, M. B.

BARBELLA, R., BERTOLI, C., CIAJOLO, A., and D'ANNA, A.:
The Behavior of a Fuel Oil During the Combustion Cycle of a Direct Injection Diesel Engine, 82: 191

BARLOW, R. S., DIBBLE, R. W., CHEN, J.-Y., and LUCHT, R. P.:
Effect of Damkohler Number on Superequilibrium OH Concentration in Turbulent Nonpremixed Jet Flames, 82: 235

BARR, P. K., KELLER, J. O., BRAMLETTE, T. T., WESTBROOK, C. K., and DEC, J. E.:
Pulse Combustion Modeling Demonstration of the Importance of Characteristic Times, 82: 252

BARR, P. K.
Acceleration of a Flame by Flame -Vortex Interactions, 82: 111

BASAK, ARUN K.: see Essenhigh, Robert H.

BECK, N. C., and HAYHURST, A. N.:
The Early Stages of the Combustion of Pulverised Coal at High Temperature I: Kinetics of Devolatilisation, 79: 47

BECK, N. C., and HAYHURST, A. N.:
The Early Stages of the Combustion of Pulverized Coal at High Temperatures II: Measurements of the Size and Composition of the Resulting Char, 80: 170

BELLAN, J., and HARSTAD, K.:
Evaporation, Ignition, and Combustion of Non-dilute Clusters of Drops, 79: 272

BENGTSSON, PER - ERIC, ALDÉN, MARCUS, KROLL, STEFAN, and NILSSON, DAVID:
Vibrational CARS Thermometry in Sooty Flames: Quantitativ Evaluation of C_2 Absorption Interference, 82: 199

BENGTSSON, PER - ERIK, and ALDÉN, M.:
Optical Investigation of Laser-Produced C_2 in Premixed Sooty Ethylene Flames, 80: 322

BERETTA, F.: see Vaglieco, B. M.

BERLAD, A. L., ROSS, H., FACCA, L., and TANGIRALA, V.:
Particle Cloud Flames in Acoustic Fields, 82: 448

BERTOLI, C.: see Barbella, R.

BHATIA, J. C., and DURST, F.:
Description of Sprays Using Joint Hyperbolic Distribution in Particle Size and Velocity, 81: 203

BICEN, A. F., TSE, D. G. N., and WHITELAW, J. H.:
Combustion Characteristics of a Model Can-Type Combustor, 80: 111

BILGER, R. W.: see Mansour, M. S.

BILGER, R. W.: see Masri, A. R.

BILGER, R. W., STÅRNER, S. H., and KEE, R. J.:
On Reduced Mechanisms for Methane-Air Combustion in Nonpremixed Flames, 80: 135

BLIN, N.: see Sahetchian, K. A.

BODDINGTON, T., COTTRELL, A., and LAYE, P. G.:
Combustion Transfer in Gasless Pyrotechnics, 79: 234

BORGHI, R.:
Turbulent Premixed Combustion: Further Discussions on the Scales of Fluctuations, 80: 304

BOWMAN, C. T.: see McManus, K. R.

BOYER, L., and QUINARD, J.:
On the Dynamics of Anchored Flames, 82: 51

BRAMLETTE, T. T.: see Barr, P. K.

BRAMLETTE, T. T.: see Keller, J. O.

BRAY, K. N. C.: see Libby, Paul A.

BRAY, K. N. C.: see Chew, T. C.

BRILL, T. B., and SUBRAMANIAN, R.:
Thermal Decomposition of Energetic Materials 35: A Mechanism Study of Decomposition

and the Ignition-Like Transition in Trinitromethyl Alkyl Compounds, 80: 150
BRITTER, R. E.: see Chew, T. C.
BROWN, NANCY J.: see Martin, Richard J.
BUCKMASTER, J., and JOULIN, G.:
Erratum: Radial Propagation of Premixed Flames and $\sqrt{t}$ Behavior by J. Buckmaster and G. Joulin. Combustion and Flame 77: 123-138, 80: 415
BUCKMASTER, J., JOULIN, G., and RONNEY, P.:
The Structure and Stability of Nonadiabatic Flame Balls, 79: 381
BUCKMASTER, J.: see Weeratunga, S.
BURMEISTER, M.: see Lindackers, D.
CAMBRAY, P.: see Deshaies, B.
CANTWELL, B. J.: see Mahalingam, S.
CANU, PAOLO, ROTA, RENATO, CARRÀ, SERGIO, and MORBIDELLI, MASSIMO:
Vented Gas Deflagrations: A Detailed Mathematical Model Tuned on a Large Set of Experimental Data, 80: 49
CARANGELO, R. M.: see Solomon, P. R.
CARLIER, M.: see Pauwels, J. F.
CARRÀ, SERGIO: see Canu, Paolo
CATON, J. A.: see Siebers, D. L.
CATON, JERALD: see Ryan, William
CAVANAGH, J., COX, R. A., and OLSON, GÖRAN:
Computer Modeling of Cool Flames and Ignition of Acetaldehyde, 82: 15
CHELLIAH, H. K., and WILLIAMS, F. A.:
Aspects of the Structure and Extinction of Diffusion Flames in Methane-Oxygen-Nitrogen Systems, 80: 17
CHEN, J. -Y., and KOLLMANN, W.:
Chemical Models for Pdf Modeling of Hydrogen- Air Nonpremixed Turbulent Flames, 79: 75
CHEN, J.-Y.: see Barlow, R. S.
CHEN, J.-Y.: see Kennedy, Ian M.
CHEN, RUEY-HUNG: see Feikema, Douglas
CHEN, SHI L.: see Lyon, Richard K.
CHENG, R.: see Zhou, L.
CHEW, T. C., BRAY, K. N. C., and BRITTER, R. E.:
Spatially Resolved Flamelet Statistics for Reaction Rate Modelling, 80: 65
CHIEN, P. L.: see Solomon, P. R.
CHUNG, S. H., and WILLIAMS, F. A.:
Asymptotic Structure and Extinction of CO/H_2 Diffusion Flames with Reduced Kinematic Mechanisms, 82: 389
CIAJOLO, A.: see Barbella, R.
CLOTHIER, P. Q. E., MOISE, A., and PRITCHARD, H. O.:
Effect of Free-Radical Release on Diesel Ignition Delay under Simulated Cold-Starting Conditions, 81: 242
COLE, JERALD A.: see Lyon, Richard K.
COLLINGS, N.: see Williams, D.
CONTINILLO, G., and SIRIGNANO, W. A.:
Counterflow Spray Combustion Modeling, 81: 325
CORCOS, G. M.: see Lee, H. S.
COTTRELL, A.: see Boddington, T.
COX, R. A.: see Cavanagh, J.
D'ALESSIO, A.: see Vaglieco, B. M.
D'ANNA, A.: see Barbella, R.
DAVIDSON, D. F., and HANSON, R. K.:
A Direct Comparison of Shock Tube Photolysis and Pyrolysis in the Determination of the Rate Coefficient for $O + H_2 \rightarrow OH + H$, 82: 445
DEC, J. E.: see Barr, P. K.
DEC, J. E.: see Keller, J. O.
DEC, JOHN E., and KELLER, JAY O.:
Time-Resolved Gas Temperatures in the Oscillating Turbulent Flow of a Pulse Combustor Tail Pipe, 80: 358
DERKSEN, R. W., and SULLIVAN, P. J.:
Moment Approximations for Probability Density Functions, 81: 378
DESHAIES, B., and CAMBRAY, P.:
The Velocity of a Premixed Flame as a Function of the Flame Stretch: An Experimental Study, 82: 361
DEVOLDER, P.: see Pauwels, J. F.
DI MAIO, F. P.: see Lignola, P. G.
DIBBLE, R. W.: see Mansour, M. S.
DIBBLE, R. W.: see Barlow, R. S.
DIBBLE, R. W.: see Masri, A. R.
DRISCOLL, JAMES F.: see Feikema, Douglas
DURÃO, D. F. G., FERRÃO, P., GULYURTLU, I., and HEITOR, M. V.:
Combustion Kinetics of High-Ash Coals in Fluidized Beds, 79: 162
DUROX, D., BAILLOT, F., SCOUFLAIRE, P., and PRUD'HOMME, R.:
Some Effects of Gravity on the Behavior of Premixed Flames, 82: 66
DURST, F.: see Bhatia, J. C.
EGOLFOPOULOS, F. N., and LAW, C. K.:
Chain Mechanisms in the Overall Reaction Orders in Laminar Flame Propagation, 80: 7
EL TAHRY, S. H.:
A Turbulent-Combustion Model for Homogeneous Charge Engines, 79: 122
ESSENHIGH, ROBERT H., BASAK, ARUN K., SHAW, DAVID W., and GANGARAM G.:

Evaluation of Reactivity Functions for Coal Combustion from Particle Size Analysis in Backmix Reactors, 79: 307
EVERITT, ELANE C.: see Kahn, M. Rashid
FACCA, L.: see Berlad, A. L.
FAETH, G. M.: see Sivathanu, Y. R.
FANSLER, TODD D., and GROFF, EDWARD G.:
Turbulence Characteristics of a Fan-Stirred Combustion Vessel, 80: 350
FEIKEMA, DOUGLAS, CHEN, RUEY-HUNG, and DRISCOLL, JAMES F.:
Enhancement of Flame Blowout Limits by the Use of Swirl, 80: 183
FERNANDEZ-PELLO, A. C.: see Lee, H. S.
FERNANDEZ-PELLO, A. C.: see Zhou, L.
FERRÃO, P.: see DURÃo, D. F. G.
FERZIGER, J. H.: see Mahalingam, S.
FRENDI, ABDELKADER: see Sibulkin, Merwin
FUJIKAKE, KENJI: see Kawazoe, Hiromitsu
GANGARAM G.: see Essenhigh, Robert H.
GARCIA-YBARRA, P.: see Trevino, C.
GARO, A., PRADO, G., and LAHAYE, J.:
Chemical Aspects of Soot Particles Oxidation in a Laminar Methane-Air Diffusion Flame, 79: 226
GASKELL, P. H., and LAU, A. K. C.:
Reply to "Comment on Pressure-Containing Correlations in Variable Density and Turbulent Reacting Flow," by Paul A Libby and K. N. C. Bray, 80: 110
GERHARDT, PH., and HOMAN, K. H.:
Ions and Charged Soot Particles in Hydrocarbon Flames I. Nozzle Beam
Sampling: Velocity, Energy and Mass Analysis; Total Ion Concentrations, 81: 289
GESSER, HYMAN D.: see Yarlagadda, Prasad S.
GIRIMAJI, S. S.: see Yeung, P. K.
GOIX, P., PARANTHOEN, P., and TRINITE, M.:
A Tomographic Study of the Measurements in a V - Shaped H_2/Air Flame and a Lagrangian Interpertation of the Turbulent Flame Brush Evolutuion, 81: 229
GORE, J. P., MENG, W. - H., and JANG, J. - H.:
Droplet Flames in Reactive Environments, 82: 126
GRAY, B. F., and WAKE, G. C.:
The Ignition of Hydroscopic Combustible Materials by Water, 79: 2
GREENHALGH, D. A.: see Shepherd, I. G.
GRIFFITHS, J. P., and PHILLIPS, C. H.:
Experimental and Numerical Studies of the Combustion of Ditertiary Butyl Peroxide in the Presence of Oxygen at Low Pressure in a Mechanically Stirred Closed Vessel, 81: 304
GROW, DANA T.:
Mass and Heat Transfer to an Ellipsoidal Particle, 80: 209
GROFF, EDWARD G.: see Fansler, Todd D.
GULYURTLU, I.: see DURÃo, D. F. G.
GUPTA, R. P.: see Gururajan, V. S.
GUPTA, R. P., GURURAJAN, V. S., LUCAS, J. A., and WALL, T. F.:
Ignition Temperature of Pulverized Coal Particles: Experimental Techniques and Coal-Related Influences, 79: 333
GURURAJAN, V. S., WALL, T. F., GUPTA, R. P., and TRUELOVE, J. S.:
Mechanisms for the Ignition of Pulverised Coal Particles, 81: 119
GURURAJAN, V. S.: see Gupta, R. P.
GUTMARK, E., HANSON-PARR, D. M., PARR, T. P., and SCHADOW, K. C.:
Fractal Behavior of a Wrinkled Annular Diffusion Flame, 79: 7
HAMINS, ANTHONY: see Smyth, Kermit C.
HANSON, R. K.: see Davidson, D. F.
HANSON-PARR, D. M.: see Gutmark, E.
HARSTAD, K.: see Bellan, J.
HAYHURST, A. N., and TUCKER, R. F.:
The Combustion of Carbon Monoxide in a Two-Zone Fluidized Bed, 79: 175
HAYHURST, A. N.: see Beck, N. C.
HEDMAN, PAUL O.: see Smith, Philip J.
HEITOR, M. V.: see DURÃo, D. F. G.
HERRERA, C.: see Trevino, C.
HOMAN, K. H.: see Gerhardt, Ph.
HONGO, I.: see Keller, Jay
HONNERY, D. R., and KENT, J.H.:
Soot Formation in Long Ethylene Diffusion Flames, 82: 426
HONNERY, D. R., and KENT, J. H.:
A Soot Formation Rate Map for a Laminar Ethylene Diffusion Flame, 79: 287
HORIGUCHI, SADASHIGE: see Tokuhashi, Kazuaki
HSHIEH, F. -Y., and RICHARDS, G. N.:
The Effect of Preheating Wood on Ignition Temperature of Wood Char: 80, 395
HUNTER, NORMAN H.: see Yarlagadda, Prasad S.
HUSAIN, D., and JI, BING:
Kinetic Study of the Absolute Rate Constant for the Reaction Between Rb and N_2O by Time-Resolved Atomic Resonance Absorption Spectroscopy, 79: 250
HUSAIN, DAVID, and JI, BING:
Kinetic Study of the Absolute Rate Constant for the Reaction of Rb + O_2 + N_2 Over the Range 709-897 K by Time-Resolved Atomic Reso-

nance Absorption Spectroscopy, 79: 393
ISHIZUKA, SATORU:
On the Flame Propagation in a Rotating Flow Field, 82: 176
IWASAKA, MASAJI: see Tokuhashi, Kazuaki
JAGODA, J. I.: see Sankar, S. V.
JAIN, S. R., and MURTHY, K. N.:
Temperature Profile and Ignition Delay Studies on Hypergolic Systems, 81: 403
JANG, J. - H.: see Gore, J. P.
JANICKA, J.: see Schneider, F.
JEENU, R.: see Krishnan, S.
JI, BING: see Husain, David
JOHNSTON. R. E.: see Weeratunga, S.
JOULIN, G.: see Buckmaster, J.
KAHN, M. RASHID, EVERITT, ELANE C., and LUI, ALAIN P.:
Modeling of Oxygen Chemisorption Kinetics on Coal Char, 80: 83
KASHIWAGI, TAKASHI, OMORI, ATSUMI, and NANBU, HIDEASBURO:
Effects of Melt Viscosity and Thermal Stability on Polymer Gasification, 81: 188
KATSUKI, M., MIZUTANI, Y., YASUDA, T., KUROSAWA, Y., KOBAYASAI, K., and TAKAHASHI, T.:
Local Fine Flame Structure and its Influence on Mixing Processes in Turbulent Premixed Flames, 82: 93
KAUFFMAN, C. W.: see Baek, S. W.
KAUFMANN, D., and ROTH, P.:
Numerical Simulation of One-Dimensional Laminar Flames Propagating into Reacting Premixed Gases, 80: 385
KAWAZOE, HIROMITZU, OHSAWA, KATSUYUKI, and FUJIKAKE, KENJI:
LDA Measurement of Fuel Droplet Sizes and Velocities in a Combustion Field, 82: 151
KEE, R. J.: see Bilger, R. W.
KELLER, J. O.: see Barr, P. K.
KELLER, J. O., BRAMLETTE, T. T., WESTBROOK, C. K., and DEC, J. E.:
Pulse Combustion: The Quantification of Characteristic Times, 79: 151
KELLER, JAY O.: see Dec, John E.
KELLER, JAY, and HONGO, I.:
Pulse Combustion: The Mechanisms of NO_x Production, 80: 219
KENNEDY, IAN M., KOLLMANN, WOLFGANG, and CHEN, J.-Y.:
A Model for Soot Formation in a Laminar Diffusion Flame, 81: 73
KENT, J. H.: see Honnery, D. R.
KOBAYASAI, K.: see Katsuki, M.
KOLLMANN, WOLFGANG: see Kennedy, Ian M.
KOLLMANN, W.: see Chen, J. -Y.
KONDO, SHIGEO: see Tokuhashi, Kazuaki
KONO, MICHIKATA: see Sato, Jun'ichi
KORTING, P. A. O. G.: see Van der Geld, C. W. M.
KRAMLICH, JOHN C.: see Lyon, Richard K.
KRIER, H.: see Powers, J. M.
KRISHNAN, S., and JEENU, R.:
Subatmospheric Burning Characteristics of AP/CTPG Composite Propellants with Burning Rate Modifiers, 80: 1
KROLL, STEFAN: see Bengtsson, Per - Eric
KUMAR, R. K.:
Detonation Cell Widths in Hydrogen-Oxygen -Diluent Mixtures, 80: 157
KUROSAWA, Y.: see Katsuki, M.
LAHAYE. J.: see Garo, A.
LAU, A. K. C.: see Gaskell, P. H.
LAW, C. K.: see Egolfopoulos, F. N.
LAYE, P. G.: see Boddington, T.
LEE, H. S., FERNANDDEZ-PELLO, A. C., CORCOS, G. M., and OPPENHEIM, A. K.:
A Mixing and Deformation Mechanism for a Supercritical Fuel Droplet, 81: 50
LI, S. C., WILLIAMS, F. A., and MARGOLIS, S. B.:
Effects of Two-Phase Flow in a Model for Nitramine Deflagration, 80: 329
LIBBY, PAUL A., and BRAY, K. N. C.:
Comment on "Pressure-Containing Correlations in Variable Density and Turbulent Reacting Flows", by P. M. Gaskell and A. K. C. Lau, 80: 108
LIGNOLA, P. G., and DI MAIO, F. P.:
Some Remarks on Modeling CSTR Combustion Processes, 80: 256
LINDACKERS, D., BURMEISTER, M., and ROTH, P.:
High Temperature Kinetics of the Reaction $CN+CO_2$, 81: 251
LUCAS, J. A.: see Gupta, R. P.
LUCHT, R. P.: see Barlow, R. S.
LUI, ALAIN P.: see Kahn, M. Rashid
LYON, RICHARD K., and COLE, JERALD A.:
A Reexamination of the RapreNOx Process, 82: 435
LYON, RICHARD K., COLE, JERALD A., KRAMLICH, JOHN C., and CHEN, SHI L.:
The Selective Reduction of SO_3 to SO_2 and the Oxidation of NO to NO_2 by Methanol, 81: 30
MAHALINGAM, S., FERZIGER, J. H., and CANTWELL, B. J.:
Self-Similar Diffusion Flame, 82: 231
MAHALINGAM, S., FERZIGER, J. H., and CANTWELL, B. J.:
A Theoretical and Experimental Study of Carbon Combustion in Stagnation Flow, 81: 166
MANSOUR, M. S., BILGER, R. W., and DIBBLE, R. W.:
Spatial Averaging Effects in Raman/Rayleigh

Measurements in a Turbulent Flame, 82: 411
MARGOLIS, S. B.: see Li, S. C.
MARGOLIS, S. B.: see Armstrong, R. C.
MARGOLIS, STEPHAN B., and WILLIAMS, FORMAN A.:
Stability of Homogeneous-Solid Deflagration with Two Phase Flow in the Reaction Zone, 79: 199
MARKHAM, J. R.: see Solomon, P. R.
MARTIN, RICHARD J., and BROWN, NANCY J.:
Analysis and Modeling of Nitrous Oxide Chemistry in Lean, Premixed Combustion, 82: 312
MARTIN, RICHARD J., and BROWN, NANCY J.:
Nitrous Oxide Formation and Destruction in Lean, Premixed Combustion, 80: 238
MASRI, A. R., BILGER, R. W., and DIBBLE, R. W.:
The Local Structure of Turbulent Nonpremixed Flames Near Extinction, 81: 260
MASRI, A. R., and POPE, S. B.:
PDF Calculations of Piloted Turbulent Nonpremixed Flames of Methane, 81: 13
MATSUI, K., and TSUJI, H.:
Effects of the Gas-Phase O_2 Consumption on the Combustion Rate of Solid Carbon, 81: 86
MAWID, M., and AGGARWALL, S. K.:
Analysis of Dropwise Ignition Versus External Ignition for Dilute Multicomponent Fuel Sprays, 81: 59
MCMANUS, K. R., VANDSBURGER, U., and BOWMAN, C. T.:
Combustor Performance Enhancement Through Direct Shear Layer Excitation, 82: 75
MENG, W. - H.: see Gore, J. P.
MILLER, J. HOUSTON: see Smyth, Kermit C.
MILOSAVLJEVIC, V. D., TAYLOR, A. M. K. P., and WHITELAW, J. H.:
The Influence of Burner Geometry and Flow Rates on the Stability and Symmetry of Swirl-Stabilized Nonpremixed Flames, 80: 196
MIZUTANI, Y.: see Katsuki, M.
MOISE, A.: see Clothier, P. Q. E.
MORBIDELLI, MASSIMO: see Canu, Paolo
MORTON, LAWRENCE A.: see Yarlagadda, Prasad S.
MURAT, M.: see Sahetchian, K. A.
MURTHY, K. N.: see Jain, S. R.
NANBU, HIDEASBURO: see Kashiwagi, Takashi
NILSSON, DAVID: see Bengtsson, Per -Eric
NIWA, MARIO: see Sato, Jun'ichi
OHLEMILLER, THOMAS J.:
Smoldering Combustion Propagation Through a Permeable Horizontal Fuel Layer, 81: 341
OHLEMILLER, THOMAS J.:
Forced Smolder Propagation and the Transition to Flaming in Cellulosic Insulation, 81: 354
OHSAWA, KATSUYUKI: see Kawazoe, Hiromitsu
OHTANI, HIDEO: see Tokuhashi, Kazuaki
OLSON, GÖRAN: see Cavanagh, J.
OMORI, ATSUMI: see Kashiwagi, Takashi
OPPENHEIM, A. K.: see Lee, H. S.
PARANTHOEN, P.: see Goix, P.
PARR, T. P.: see Gutmark, E.
PAUWELS, J. F., CARLIER, M., DEVOLDER, P., and SOCHET, L. R.:
Influence of Equivalence Ratio on the Structure of Low-Pressure Premixed Methanol-Air Flames, 82: 163
PETERS, N.: see Seshadri, K.
PETERS, N.: see Rogg, B.
PHILLIPS, C. H.: see Griffiths, J. P.
POPE, S. B.: see Masri, A. R.
POPE, S. B.: see Yeung, P. K.
PORTER, F. M.: see Shepherd, I. G.
POWERS, J. M., STEWART, D. S., and KRIER, H.:
THeory of Two-Phase Detonation -Part I: Modeling, 80: 264
POWERS, J. M., STEWART, D. S., and KRIER, H.:
Theory of Two-Phase Detonation -Part II. Structure, 80: 280
PRADO, G.: see Garo, A.
PRITCHARD, H. O.: see Clothier, P. Q. E.
PRUD'HOMME, R.: see Durox, D.
QUEIROZ, M., and YAO, S. C.:
Experimental Exploration of the Thermal Structure of an Array of Burning Droplet Streams, 82: 346
QUINARD, J.: see Searby, G.
QUINARD, J.: see Boyer, L.
RABITZ, H.: see Vajda, S.
RICHARDS, G. A., and SOJKA, P. E.:
A Model of H_2-Enhanced Spray Combustion, 79: 319
RICHARDS, G. N.: see Hshieh, F. -Y.
RIGNY, R.: see Sahetchian, K. A.
ROGG, B., and PETERS, N.:
The Asymptotic Structure of Weakly Strained Stoichiometric Methane-Air Flames, 79: 402
RONNEY, P.:
Near-Limit Flame Structures at Low Lewis Number, .80: 209
RONNEY, P.: see Buckmaster, J.
ROSS, H.: see Berlad, A. L.
ROTA, RENATO: see Canu, Paolo
ROTH, P.: see Lindackers, D.
ROTH, P.: see Kaufmann, D.
RYAN, WILLIAM, ANNAMALAI, KALYAN, and CATON, JERALD:
Relation Between Groop Combustion and Drop

Array Studies, 80: 313 SAHETCHIAN, K. A., BLIN, N., RIGNY, R., SEYDI, A., and MURAT, M.:
The Oxidation of n-Butane and n-Heptane in a CFR Engine. Isomerzation Reactions and Delay of Auto ignition, 79: 242
SANKAR, S. V., JAGODA, J. I., and ZINN, B. T.:
Oscillatory Velocity Response of Premixed Flat Flames Stabilized in Axial Acoustic Fields, 80: 371
SATO, JUN'ICHI, TSUE, MITSUHIRO, NIWA, MARIO, and KONO, MICHIKATA:
Effects of Natural Convection on High -Pressure Droplet Combustion, 82: 142
SCHADOW, K. C.: see Gutmark, E.
SCHNEIDER, F., and JANICKA, J.:
The Reynolds-Stress Tensor in Diffusion Flames: An Experimental and Theoretical Investigation, 81: 1
SCOUFLAIRE, P.: see Durox, D.
SEARBY, G., and QUINARD, J.:
Direct and Indirect Measurements of Markstein Numbers of Premixed Flames, 82: 298
SERIO, M. A., and MARKHAM, J. R.:
New Ignition Phenomenon in Coal Combustion, 79: 214
SERIO, M. A.: see Solomon, P. R.
SESHADRI, K., and PETERS, N.:
The Inner Structure of Methane-Air Flames, 81: 96
SEUNG, SUNGPYO: see Baek, Seung Wook
SEYDI, A.: see Sahetchian, K. A.
SHAH, D. O.: see Adiga, K. C.
SHAW, B. D.:
Studies of Influences of Liquid-Phase Species Diffusion on Symmetric Combustion of Miscible Binary Droplets, 81: 277
SHAW, DAVID W.: see Essenhigh, Robert H.
SHAYLER, P. J.: see Williams, D.
SHEPHERD, I. G., PORTER, F. M., and GREENHALGH, D. A.:
Spatial Resolution Effects of CARS in Turbulent Premixed Combustion Thermometry, 82: 106
SHEU, W. J., SOHRAB, S. H., and SIVASHINSKY, G. I.:
Effect of Rotation on Bunsen Flame, 79: 190
SIBULKIN, MERWIN, and FRENDI, ABDELKADER:
Prediction of Flammability Limit of an Unconfined Premixed Gas in the Absence of Gravity, 82: 334
SICHEL, M.: see Baek, S. W.
SIEBERS, D. L., and CATON, J. A.:
Removal of Nitric Oxide from Exhaust Gas with Cyanuric Acid, 79: 31
SIRIGNANO, W. A.: see Continillo, G.
SIVASHINSKY, G. I.: see Sheu, W. J.
SIVATHANU, Y. R., and FAETH, G. M.:
Generalized State Relationships for Scalar Properties in Nonpremixed Hydrocarbon/Air Flames, 82: 211
SIVATHANU, Y. R., and FAETH, G. M.:
Soot Volume Fractions in the Overfire Region of Turbulent Diffusion Flames, 81: 133
SIVATHANU, Y. R., and FAETH, G. M.:
Temperature/Soot Volume Fraction Correlations in the Fuel-Rich Region of Buoyant Turbulent Diffusion Flames, 81: 150
SMITH, PHILIP J., SOWA, WILLIAM A., and HEDMAN, PAUL O.:
Furnace Design using Comprehensive Combustion Models, 79: 111
SMYTH, KERMIT C., TJOSSEM, J. H., HAMINS, ANTHONY, and MILLER, J. HOUSTON:
Concentration Measurements of OH· and Equilibrium Analysis in a Laminar Methane–Air Diffusion Flame, 79: 366
SOCHET, L. R.: see Pauwels, J. F.
SOHRAB, S. H.: see Sheu, W. J.
SOJKA, P. E.: see Richards, G. A.
SOLOMON, P. R., CHIEN, P. L., CARANGELO, R. M.,
SOWA, WILLIAM A.: see Smith, Philip J.
STÅRNER, S. H.: see Bilger, R. W.
STEWART, D. S.: see Powers, J. M.
SUBRAMANIAN, R.: see Brill, T. B.
SULLIVAN, P. J.: see Derksen, R. W.
TAKAHASHI, T.: see Katzuki, M.
TALLEY, D. G.:
Some Properties of Nearly Premixed Laminar Flame Propagation Along Weakly Stratified Layers in Combustible Gas Mixtures, 79: 141
TANGIRALA, V.: see Berlad, A. L.
TAYLOR, A. M. K. P.: see Milosavljevic, V. D.
T'IEN, JAMES S.:
The Possibility of a Reversal of Material Flammability Ranking from Normal Gravity to Microgravity, 80: 355
TJOSSEM, J. H.: see Smyth, Kermit C.
TOKUHASHI, KAZUAKI, HORIGUCHI, SADASHIGE, URANO, YOUKICHI, IWASAKA, MASAJI, OHTANI, HIDEO, and KONDO, SHIGEO:
Premixed Silane-Oxygen-Nitrogen Flames, 82: 40
TOKUHASHI, KAZUAKI, HORIGUCHI, SADASHIGE, URANO, YOUKICHI, and KONDO, SHIGEO:
Premixed Disilane-Oxygen-Nitrogen Flames, 81: 317
TREVINO, C., HERRERA, C., and GARCIA-YBARRA, P.:
Stability Analysis of a Simplified Model of a

Fluidized Bed Combustor: 80, 399
TRINITE, M.: see Goix, P.
TRUELOVE, J. S.: see Gururajan, V. S.
TSE, D. G. N.: see Bicen, A. F.
TSUE, MITSUHIRO: see Sato, Jun'ichi
TSUJI, H.: see Matsui, K.
TUCKER, R. F.: see Hayhurst, A. N.
TZENG, L. S., ATREYA, ARVIND, and WICHMAN, INDREK S.:
A One-Dimensional Model of Piloted Ignition, 80: 94
URANO, YOUKICHI: see Tokuhashi, Kazuaki
VAGLIECO, B. M., BERETTA, F., and D'ALESSIO, A.:
In Situ Evaluation of the Soot Refractive Index in the UV -Visible From the Measurement of the Scattering and Extinction Coefficients in Rich Flames, 79: 259
VAJDA, S., RABITZ, H., and YETTER, R. A.:
Effects of Thermal Coupling and Diffusion on the Mechanism of H_2 Oxidation in Steady Premixed Laminar Flames, 82: 270
VAN DER GELD, C. W. M., KORTING, P. A. O. G., and WIJCHERS, T.:
Combustion of PMMA, PE, and PS in a Ramjet, 79: 299
VANDSBURGER, U.: see McManus, K. R.
VOSEN, STEVEN R.:
Hydroxylammonium Nitrate-Based Liquid Propellant Combustion -Interpretation of Strand Burner Data and the Laminar Burning Velocity, 82: 376
WAKE, G. C.: see Gray, B. F.
WALL, T. F.: see Gupta, R. P.
WALL, T. F.: see Gururajan, V. S.
WEERATUNGA, S., BUCKMASTER, J., and JOHNSTON. R. E.:
A Flame-Bubble Analogue and Its Stability, 79: 100
WESTBROOK, C. K.: see Barr, P. K.
WESTBROOK, C. K.: see Keller, J. O.
WHITELAW, J. H.: see Milosavljevic, V. D.
WHITELAW, J. H.: see Bicen, A. F.
WICHMAN, INDREK S.: see Tzeng, L. S.
WIJCHERS, T.: see Van der Geld, C. W. M.
WILLIAMS, D., SHAYLER, P. J., and COLLINGS, N.:
The Origins of Ionization in the Exhaust Gases of Spark Ignition Engines, 81: 392
WILLIAMS, F. A.: see Chelliah, H. K.
WILLIAMS, F. A.: see Chung, S. H.
WILLIAMS, F. A.: see Li, S. C.
WILLIAMS, FORMAN A.: see Margolis, Stephan B.
YAO, S. C.: see Queiroz, M.
YARLAGADDA, PRASAD S., MORTON, LAWRENCE A., HUNTER, NORMAN H., and GESSER, HYMAN D.:
Temperature Oscillations During the High Pressure Partial Oxidation of Methane in a Tubular Flow Reactor, 79: 216
YASUDA, T.: see Katsuki, M.
YETTER, R. A.: see Vajda, S.
YEUNG, P. K., GIRIMAJI, S. S., and POPE, S. B.:
Straining and Scalar Dissipation on Material Surfaces in Turbulence: Implications for Flamelets, 79: 340
ZATURSKA, M. B., and BANKS, W. H. H.:
Thermal Explosion for Multidimensional Reactants With Partial Insulation, 79: 220
ZHOU, L., FERNANDEZ-PELLO, A. C., and CHENG, R.:
Flame Spread in an Opposed Turbulent Flow, 81: 40
ZINN, B. T.: see Sankar, S. V.

SUBJECT INDEX

Volumes 79, 80, 81 and 82, 1990

1. ASYMPTOTIC ANALYSES

A Flame-Bubble Analogue and Its Stability, 79: 100

Effect of Rotation on Bunsen Flame, 79: 190

Stability of Homogeneous-Solid Deflagration with Two Phase Flow in the Reaction Zone, 79: 199

The Structure and Stability of Nonadiabatic Flame Balls, 79: 381

The Asymptotic Structure of Weakly Strained Stoichiometric Methane-Air Flames, 79: 402

Aspects of the Structure and Extinction of Diffusion Flames in Methane-Oxygen-Nitrogen Systems, 80: 17

Effects of Two-Phase Flow in a Model for Nitramine Deflagration, 80: 329

Erratum: Radial Propagation of Premixed Flames and $\sqrt{t}$ Behavior by J. Buckmaster and G. Joulin. Combustion and Flame 77: 123-138, 80: 415

The Inner Structure of Methane-Air Flames, 81: 96

Asymptotic Analysis of the Shock Wave Ignition of Dust Particles, 81: 219

Studies of Influences of Liquid-Phase Species Diffusion on Symmetric Combustion of Miscible Binary Droplets, 81: 277

Droplet Flames in Reactive Environments, 82: 126

Asymptotic Structure and Extinction of CO/H_2 Diffusion Flames with Reduced Kinematic Mechanisms, 82: 389

2. COMBUSTION IN PRACTICAL SYSTEMS

Removal of Nitric Oxide from Exhaust Gas with Cyanuric Acid, 79: 31

The Early Stages of the Combustion of Pulverised Coal at High Temperature I: Kinetics of Devolatilisation, 79: 47

Furnace Design using Comprehensive Combustion Models, 79: 111

A Turbulent-Combustion Model for Homogeneous Charge Engines, 79: 122

Pulse Combustion: The Quantification of Characteristic Times, 79: 151

Combustion Kinetics of High-Ash Coals in Fluidized Beds, 79: 162

The Combustion of Carbon Monoxide in a Two-Zone Fluidized Bed, 79: 175

New Ignition Phenomenon in Coal Combustion, 79: 214

The Oxidation of n-Butane and n-Heptane in a CFR Engine. Isomerzation Reactions and Delay of Auto ignition, 79: 242

Combustion of PMMA, PE, and PS in a Ramjet, 79: 299

Evaluation of Reactivity Functions for Coal Combustion from Particle Size Analysis in Backmix Reactors, 79: 307

Ignition Temperature of Pulverized Coal Particles: Experimental Techniques and Coal-Related Influences, 79: 333

Modeling of Oxygen Chemisorption Kinetics on Coal Char, 80: 83

Combustion Characteristics of a Model Can-Type Combustor, 80: 111

The Early Stages of the Combustion of Pulverized Coal at High Temperatures II: Measurements of the Size and Composition of the Resulting Char, 80: 170

Erratum: Hydrodynamic and Reactive/Diffusive Instabilities in a Dynamic Model of Liquid Propellant Combustion - II. Inviscid Fluid Motions, 77: 123-138 (1989), 80: 214

Pulse Combustion: The Mechanisms of NO_x Production, 80: 219

Some Remarks on Modeling CSTR Combustion Processes, 80: 256

Time-Resolved Gas Temperatures in the Oscillating Turbulent Flow of a Pulse Combustor Tail Pipe, 80: 358

Oscillatory Velocity Response of Premixed Flat Flames Stabilized in Axial Acoustic Fields, 80: 371

Numerical Simulation of One-Dimensional Laminar Flames Propagating into Reacting Premixed Gases, 80: 385

Stability Analysis of a Simplified Model of a Fluidized Bed Combustor: 80, 399

The Selective Reduction of SO_3 to SO_2 and the Oxidation of NO to NO_2 by Methanol, 81: 30

A Mixing and Deformation Mechanism for a Supercritical Fuel Droplet, 81: 50

Analysis of Dropwise Ignition Versus External Ignition for Dilute Multicomponent Fuel Sprays, 81: 59

Mechanisms for the Ignition of Pulverised Coal Particles, 81: 119
Soot Volume Fractions in the Overfire Region of Turbulent Diffusion Flames, 81: 133
Temperature/Soot Volume Fraction Correlations in the Fuel-Rich Region of Buoyant Turbulent Diffusion Flames, 81: 150
Effect of Free-Radical Release on Diesel Ignition Delay under Simulated Cold-Starting Conditions, 81: 242
The Origins of Ionization in the Exhaust Gases of Spark Ignition Engines, 81: 392
Combustor Performance Enhancement Through Direct Shear Layer Excitation, 82: 75
Effects of Natural Convection on High -Pressure Droplet Combustion, 82: 142
The Behavior of a Fuel Oil During the Combustion Cycle of a Direct Injection Diesel Engine, 82: 191
Pulse Combustion Modeling Demonstration of the Importance of Characteristic Times, 82: 252
A Reexamination of the RapreNO_x Process, 82: 435

3. COMBUSTION STABILITY/INSTABILITY
A Flame-Bubble Analogue and Its Stability, 79: 100
Pulse Combustion: The Quantification of Characteristic Times, 79: 151
Temperature Oscillations During the High Pressure Partial Oxidation of Methane in a Tubular Flow Reactor, 79: 216
Erratum: Hydrodynamic and Reactive/Diffusive Instabilities in a Dynamic Model of Liquid Propellant Combustion - II. Inviscid Fluid Motions, 77: 123-138 (1989), 80: 214
Pulse Combustion: The Mechanisms of NO_x Production, 80: 219
Time-Resolved Gas Temperatures in the Oscillating Turbulent Flow of a Pulse Combustor Tail Pipe, 80: 358
Oscillatory Velocity Response of Premixed Flat Flames Stabilized in Axial Acoustic Fields, 80: 371
On the Dynamics of Anchored Flames, 82: 51
Combustor Performance Enhancement Through Direct Shear Layer Excitation, 82: 75
Pulse Combustion Modeling Demonstration of the Importance of Characteristic Times, 82: 252
Particle Cloud Flames in Acoustic Fields, 82: 448

4. COMBUSTION SYSTEMS: ANALYTIC AND NUMERICAL DESCRIPTIONS
Some Properties of Nearly Premixed Laminar Flame Propagation Along Weakly Stratified Layers in Combustible Gas Mixtures, 79: 141
Stability of Homogeneous-Solid Deflagration with Two Phase Flow in the Reaction Zone, 79: 199
Thermal Explosion for Multidimensional Reactants With Partial Insulation, 79: 220
Combustion Transfer in Gasless Pyrotechnics, 79: 234
Evaporation, Ignition, and Combustion of Non-dilute Clusters of Drops, 79: 272
Straining and Scalar Dissipation on Material Surfaces in Turbulence: Implications for Flamelets, 79: 340
A One-Dimensional Model of Piloted Ignition, 80: 94
Comment on "Pressure-Containing Correlations in Variable Density and Turbulent Reacting Flows," by P. M. Gaskell and A. K. C. Lau, 80: 108
Reply to "Comment on Pressure-Containing Correlations in Variable Density and Turbulent Reacting Flow," by Paul A Libby and K. N. C. Bray, 80: 110
Parametric Analysis on the Post-Shock Wave Relaxation Zone of Carbon Particle-Laden Oxygen Gas, 80: 126
Mass and Heat Transfer to an Ellipsoidal Particle, 80: 209
Theory of Two-Phase Detonation - Part I: Modeling, 80: 264
Theory of Two-Phase Detonation - Part II. Structure, 80: 280
Turbulent Premixed Combustion: Further Discussions on the Scales of Fluctuations, 80: 304
Numerical Simulation of One-Dimensional Laminar Flames, Propagating into Reacting Premixed Gases, 80: 385
Stability Analysis of a Simplified Model of a Fluidized Bed Combustor: 80, 399
The Reynolds-Stress Tensor in Diffusion Flames: An Experimental and Theoretical Investigation, 81: 1
PDF Calculations of Piloted Turbulent Nonpremixed Flames of Methane, 81: 13
Effects of the Gas-Phase O_2 Consumption on the Combustion Rate of Solid Carbon, 81: 86
Mechanisms for the Ignition of Pulverised Coal

Particles, 81: 119
A Theoretical and Experimental Study of Carbon Combustion in Stagnation Flow, 81: 166
Description of Sprays Using Joint Hyperbolic Distribution in Particle Size and Velocity, 81: 203
Counterflow Spray Combustion Modeling, 81: 325
Ignition of Particle Suspensions in Slab Geometry, 81: 366
Acceleration of a Flame by Flame - Vortex Interactions, 82: 111
Self-Similar Diffusion Flame, 82: 231

5. COMBUSTION SYSTEMS: MODELING AND SCALING
Fractal Behavior of a Wrinkled Annular Diffusion Flame, 79: 7
Chemical Models for Pdf Modeling of Hydrogen- Air Nonpremixed Turbulent Flames, 79: 75
Furnace Design using Comprehensive Combustion Models, 79: 111
A Turbulent-Combustion Model for Homogeneous Charge Engines, 79: 122
A Model of H_2-Enhanced Spray Combustion, 79: 319
Vented Gas Deflagrations: A Detailed Mathematical Model Tuned on a Large Set of Experimental Data, 80: 49
Spatially Resolved Flamelet Statistics for Reaction Rate Modelling, 80: 65
Modeling of Oxygen Chemisorption Kinetics on Coal, 80: 83
On Reduced Mechanisms for Methane-Air Combustion in Nonpremixed Flames, 80: 135
Some Remarks on Modeling CSTR Combustion Processes, 80: 256
Relation Between Groop Combustion and Drop Array Studies, 80: 313
A Mixing and Deformation Mechanism for a Supercritical Fuel Droplet, 81: 50
A Model for Soot Formation in a Laminar Diffusion Flame, 81: 73
Counterflow Spray Combustion Modeling, 81: 325
Moment Approximations for Probability Density Functions, 81: 378
Computer Modeling of Cool Flames and Ignition of Acetaldehyde, 82: 15
Effect of Damkohler Number on Superequilibrium OH Concentration in Turbulent Nonpremixed Jet Flames, 82: 235
Pulse Combustion Modeling Demonstration of the Importance of Characteristic Times, 82: 252
Effects of Thermal Coupling and Diffusion on the Mechanism of H_2 Oxidation in Steady Premixed Laminar Flames, 82: 270
Direct and Indirect Measurements of Markstein Numbers of Premixed Flames, 82: 298
Analysis and Modeling of Nitrous Oxide Chemistry in Lean, Premixed Combustion, 82: 312
Prediction of Flammability Limit of an Unconfined Premixed Gas in the Absence of Gravity, 82: 334
Particle Cloud Flames in Acoustic Fields, 82: 448

6. COMBUSTION SYSTEMS: NEW
Effect of Rotation on Bunsen Flame, 79: 190

7. DETONATIONS, CONDENSED PHASE AND HETEROGENEOUS
THeory of Two-Phase Detonation - Part I: Modeling, 80: 264
Theory of Two-Phase Detonation - Part II. Structure, 80: 280
Asymptotic Analysis of the Shock Wave Ignition of Dust Particles, 81: 219

8. DETONATIONS, GAS PHASE
Detonation Cell Widths in Hydrogen-Oxygen -Diluent Mixtures, 80: 157

9. DIAGNOSTICS, LASER
Concentration Measurements of OH· and Equilibrium Analysis in a Laminar Methane-Air Diffusion Flame, 79: 366
Optical Investigation of Laser-Produced C_2 in Premixed Sooty Ethylene Flames, 80: 322
A Tomographic Study of the Measurements in a V - Shaped H_2/Air Flame and a Lagrangian Interpertation of the Turbulent Flame Brush Evolutuion, 81: 229
Spatial Resolution Effects of CARS in Turbulent Premixed Combustion Thermometry, 82: 106
LDA Measurement of Fuel Droplet Sizes and Velocities in a Combustion Field, 82: 151
Vibrational CARS Thermometry in Sooty Flames: Quantitativ Evaluation of C_2 Absorption Interference, 82: 199
Effect of Damkohler Number on Superequilibrium OH Concentration in Turbulent Nonpremixed Jet Flames, 82: 235

Spatial Averaging Effects in Raman/Rayleigh Measurements in a Turbulent Flame, 82: 411

10. DIAGNOSTICS, OPTICAL AND PHOTOGRAPHIC
In Situ Evaluation of the Soot Refractive Index in the UV - Visible From the Measurement of the Scattering and Extinction Coefficients in Rich Flames, 79: 259
Spatial Averaging Effects in Raman/Rayleigh Measurements in a Turbulent Flame, 82: 411

11. DIAGNOSTICS, OTHER
Ions and Charged Soot Particles in Hydrocarbon Flames I. Nozzle Beam Sampling: Velocity, Energy and Mass Analysis; Total Ion Concentrations, 81: 289
Influence of Equivalence Ratio on the Structure of Low-Pressure Premixed Methanol-Air Flames, 82: 163

12. EXPERIMENTAL TECHNIQUES OR RESULTS, BURNERS
Fractal Behavior of a Wrinkled Annular Diffusion Flame, 79: 7
The Early Stages of the Combustion of Pulverised Coal at High Temperature I: Kinetics of Devolatilisation, 79: 47
Furnace Design using Comprehensive Combustion Models, 79: 111
Effect of Rotation on Bunsen Flame, 79: 190
Chemical Aspects of Soot Particles Oxidation in a Laminar Methane-Air Diffusion Flame, 79: 226
In Situ Evaluation of the Soot Refractive Index in the UV - Visible From the Measurement of the Scattering and Extinction Coefficients in Rich Flames, 79: 259
A Soot Formation Rate Map for a Laminar Ethylene Diffusion Flame, 79: 287
Concentration Measurements of OH· and Equilibrium Analysis in a Laminar Methane-Air Diffusion Flame, 79: 366
Chain Mechanisms in the Overall Reaction Orders in Laminar Flame Propagation, 80: 7
Spatially Resolved Flamelet Statistics for Reaction Rate Modelling, 80: 65
The Early Stages of the Combustion of Pulverized Coal at High Temperatures II: Measurements of the Size and Composition of the Resulting Char, 80: 170
Enhancement of Flame Blowout Limits by the Use of Swirl, 80: 183
The Influence of Burner Geometry and Flow Rates on the Stability and Symmetry of Swirl-Stabilized Nonpremixed Flames, 80: 196
Nitrous Oxide Formation and Destruction in Lean, Premixed Combustion, 80: 238
Optical Investigation of Laser-Produced C_2 in Premixed Sooty Ethylene Flames, 80: 322
The Reynolds-Stress Tensor in Diffusion Flames: An Experimental and Theoretical Investigation, 81: 1
PDF Calculations of Piloted Turbulent Nonpremixed Flames of Methane, 81: 13
Soot Volume Fractions in the Overfire Region of Turbulent Diffusion Flames, 81: 133
Temperature/Soot Volume Fraction Correlations in the Fuel-Rich Region of Buoyant Turbulent Diffusion Flames, 81: 150
A Tomographic Study of the Measurements in a V - Shaped H_2/Air Flame and a Lagrangian Interpertation of the Turbulent Flame Brush Evolutuion, 81: 229
Ions and Charged Soot Particles in Hydrocarbon Flames I. Nozzle Beam Sampling: Velocity, Energy and Mass Analysis; Total Ion Concentrations, 81: 289
Premixed Disilane-Oxygen-Nitrogen Flames, 81: 317
Premixed Silane-Oxygen-Nitrogen Flames, 82: 40
On the Dynamics of Anchored Flames, 82: 51
Some Effects of Gravity on the Behavior of Premixed Flames, 82: 66
Local Fine Flame Structure and its Influence on Mixing Processes in Turbulent Premixed Flames, 82: 93
Droplet Flames in Reactive Environments, 82: 126
Effects of Natural Convection on High -Pressure Droplet Combustion, 82: 142
LDA Measurement of Fuel Droplet Sizes and Velocities in a Combustion Field, 82: 151
Influence of Equivalence Ratio on the Structure of Low-Pressure Premixed Methanol-Air Flames, 82: 163
On the Flame Propagation in a Rotating Flow Field, 82: 176
Vibrational CARS Thermometry in Sooty Flames: Quantitativ Evaluation of C_2 Absorption Interference, 82: 199
Effect of Damkohler Number on Superequilibrium OH Concentration in Turbulent Nonpremixed Jet Flames, 82: 235

Direct and Indirect Measurements of Markstein Numbers of Premixed Flames, 82: 298
Experimental Exploration of the Thermal Structure of an Array of Burning Droplet Streams, 82: 346
The Velocity of a Premixed Flame as a Function of the Flame Stretch: An Experimental Study, 82: 361
Hydroxylammonium Nitrate-Based Liquid Propellant Combustion - Interpretation of Strand Burner Data and the Laminar Burning Velocity, 82: 376
Spatial Averaging Effects in Raman/Rayleigh Measurements in a Turbulent Flame, 82: 411
Soot Formation in Long Ethylene Diffusion Flames, 82: 426

13. EXPERIMENTAL TECHNIQUES OR RESULTS, PLUG FLOW REACTORS
Removal of Nitric Oxide from Exhaust Gas with Cyanuric Acid, 79: 31
Combustion Kinetics of High-Ash Coals in Fluidized Beds, 79: 162
The Combustion of Carbon Monoxide in a Two-Zone Fluidized Bed, 79: 175
Temperature Oscillations During the High Pressure Partial Oxidation of Methane in a Tubular Flow Reactor, 79: 216
The Oxidation of n-Butane and n-Heptane in a CFR Engine. Isomerzation Reactions and Delay of Auto ignition, 79: 242
Evaluation of Reactivity Functions for Coal Combustion from Particle Size Analysis in Backmix Reactors, 79: 307
The Selective Reduction of SO_3 to SO_2 and the Oxidation of NO to NO_2 by Methanol, 81: 30
A Reexamination of the RapreNO_x Process, 82: 435

14. EXPERIMENTAL TECHNIQUES OR RESULTS, QUASI-STATIC VESSELS
Thermal Explosion for Multidimensional Reactants With Partial Insulation, 79: 220
The Oxidation of n-Butane and n-Heptane in a CFR Engine. Isomerzation Reactions and Delay of Auto ignition, 79: 242
Kinetic Study of the Absolute Rate Constant for the Reaction Between Rb and N_2O by Time-Resolved Atomic Resonance Absorption Spectroscopy, 79: 250
The Structure and Stability of Nonadiabatic Flame Balls, 79: 381
Kinetic Study of the Absolute Rate Constant for the Reaction of Rb + O_2 + N_2 Over the Range 709-897 K by Time-Resolved Atomic Resonance Absorption Spectroscopy, 79: 393
Turbulence Characteristics of a Fan-Stirred Combustion Vessel, 80: 350
Experimental and Numerical Studies of the Combustion of Ditertiary Butyl Peroxide in the Presence of Oxygen at Low Pressure in a Mechanically Stirred Closed Vessel, 81: 304

15. EXPERIMENTAL TECHNIQUES OR RESULTS, SHOCK TUBES
Detonation Cell Widths in Hydrogen-Oxygen -Diluent Mixtures, 80: 157
High Temperature Kinetics of the Reaction CN+CO_2, 81: 251
A Direct Comparison of Shock Tube Photolysis and Pyrolysis in the Determination of the Rate Coefficient for O + H_2 → OH + H, 82: 445

16. EXPERIMENTAL TECHNIQUES OR RESULTS, WELL STIRRED REACTORS
Some Remarks on Modeling CSTR Combustion Processes, 80: 256

17. FIRE OR EXPLOSION PHENOMENA, COMBUSTION SAFETY
The Ignition of Hydroscopic Combustible Materials by Water, 79: 2
Some Properties of Nearly Premixed Laminar Flame Propagation Along Weakly Stratified Layers in Combustible Gas Mixtures, 79: 141
Thermal Explosion for Multidimensional Reactants With Partial Insulation, 79: 220
Vented Gas Deflagrations: A Detailed Mathematical Model Tuned on a Large Set of Experimental Data, 80: 49
A One-Dimensional Model of Piloted Ignition, 80: 94
Detonation Cell Widths in Hydrogen-Oxygen -Diluent Mixtures, 80: 157
The Possibility of a Reversal of Material Flammability Ranking from Normal Gravity to Microgravity, 80: 355
The Effect of Preheating Wood on Ignition Temperature of Wood Char: 80, 395
Flame Spread in an Opposed Turbulent Flow, 81: 40
Effects of Melt Viscosity and Thermal Stability on Polymer Gasification, 81: 188
Smoldering Combustion Propagation Through a Permeable Horizontal Fuel Layer, 81: 341

Forced Smolder Propagation and the Transition to Flaming in Cellulosic Insulation, 81: 354
Temperature Profile and Ignition Delay Studies on Hypergolic Systems, 81: 403
Acceleration of a Flame by Flame - Vortex Interactions, 82: 111

18. FLAME IGNITION OR STABILIZATION
The Ignition of Hydroscopic Combustible Materials by Water, 79: 2
Effect of Rotation on Bunsen Flame, 79: 190
New Ignition Phenomenon in Coal Combustion, 79: 214
Evaporation, Ignition, and Combustion of Nondilute Clusters of Drops, 79: 272
Ignition Temperature of Pulverized Coal Particles: Experimental Techniques and Coal-Related Influences, 79: 333
A One-Dimensional Model of Piloted Ignition, 80: 94
Enhancement of Flame Blowout Limits by the Use of Swirl, 80: 183
The Influence of Burner Geometry and Flow Rates on the Stability and Symmetry of Swirl-Stabilized Nonpremixed Flames, 80: 196
The Effect of Preheating Wood on Ignition Temperature of Wood Char: 80, 395
Analysis of Dropwise Ignition Versus External Ignition for Dilute Multicomponent Fuel Sprays, 81: 59
Mechanisms for the Ignition of Pulverised Coal Particles, 81: 119
Effect of Free-Radical Release on Diesel Ignition Delay under Simulated Cold-Starting Conditions, 81: 242
Forced Smolder Propagation and the Transition to Flaming in Cellulosic Insulation, 81: 354
Temperature Profile and Ignition Delay Studies on Hypergolic Systems, 81: 403
Computer Modeling of Cool Flames and Ignition of Acetaldehyde, 82: 15
On the Flame Propagation in a Rotating Flow Field, 82: 176

19. FLAME QUENCHING OR EXTINCTION
The Structure and Stability of Nonadiabatic Flame Balls, 79: 381
Aspects of the Structure and Extinction of Diffusion Flames in Methane-Oxygen-Nitrogen Systems, 80: 17
Enhancement of Flame Blowout Limits by the Use of Swirl, 80: 183
The Local Structure of Turbulent Nonpremixed Flames Near Extinction, 81: 260
Near-Limit Flame Structures at Low Lewis Number, 82: 1
Droplet Flames in Reactive Environments, 82: 126
On the Flame Propagation in a Rotating Flow Field, 82: 176
Prediction of Flammability Limit of an Unconfined Premixed Gas in the Absence of Gravity, 82: 334
Asymptotic Structure and Extinction of CO/H_2 Diffusion Flames with Reduced Kinematic Mechanisms, 82: 389

20. FLAMES, DIFFUSION
Fractal Behavior of a Wrinkled Annular Diffusion Flame, 79: 7
Chemical Models for Pdf Modeling of Hydrogen-Air Nonpremixed Turbulent Flames, 79: 75
Some Properties of Nearly Premixed Laminar Flame Propagation Along Weakly Stratified Layers in Combustible Gas Mixtures, 79: 141
Chemical Aspects of Soot Particles Oxidation in a Laminar Methane-Air Diffusion Flame, 79: 226
A Soot Formation Rate Map for a Laminar Ethylene Diffusion Flame, 79: 287
Concentration Measurements of OH· and Equilibrium Analysis in a Laminar Methane-Air Diffusion Flame, 79: 366
Aspects of the Structure and Extinction of Diffusion Flames in Methane-Oxygen-Nitrogen Systems, 80: 17
On Reduced Mechanisms for Methane-Air Combustion in Nonpremixed Flames, 80: 135
Enhancement of Flame Blowout Limits by the Use of Swirl, 80: 183
The Influence of Burner Geometry and Flow Rates on the Stability and Symmetry of Swirl-Stabilized Nonpremixed Flames, 80: 196
The Reynolds-Stress Tensor in Diffusion Flames: An Experimental and Theoretical Investigation, 81: 1
PDF Calculations of Piloted Turbulent Nonpremixed Flames of Methane, 81: 13
Flame Spread in an Opposed Turbulent Flow, 81: 40
A Model for Soot Formation in a Laminar Diffusion Flame, 81: 73

Soot Volume Fractions in the Overfire Region of Turbulent Diffusion Flames, 81: 133
Temperature/Soot Volume Fraction Correlations in the Fuel-Rich Region of Buoyant Turbulent Diffusion Flames, 81: 150
The Local Structure of Turbulent Nonpremixed Flames Near Extinction, 81: 260
Droplet Flames in Reactive Environments, 82: 126
Effects of Natural Convection on High -Pressure Droplet Combustion, 82: 142
The Behavior of a Fuel Oil During the Combustion Cycle of a Direct Injection Diesel Engine, 82: 191
Generalized State Relationships for Scalar Properties in Nonpremixed Hydrocarbon/Air Flames, 82: 211
Self-Similar Diffusion Flame, 82: 231
Effect of Damkohler Number on Superequilibrium OH Concentration in Turbulent Nonpremixed Jet Flames, 82: 235
Asymptotic Structure and Extinction of CO/H_2 Diffusion Flames with Reduced Kinematic Mechanisms, 82: 389
Soot Formation in Long Ethylene Diffusion Flames, 82: 426

21. FLAMES, NONSTEADY
A Flame-Bubble Analogue and Its Stability, 79: 100
A Turbulent-Combustion Model for Homogeneous Charge Engines, 79: 122
Some Properties of Nearly Premixed Laminar Flame Propagation Along Weakly Stratified Layers in Combustible Gas Mixtures, 79: 141
Pulse Combustion: The Quantification of Characteristic Times, 79: 151
The Structure and Stability of Nonadiabatic Flame Balls, 79: 381
The Asymptotic Structure of Weakly Strained Stoichiometric Methane-Air Flames, 79: 402
Turbulence Characteristics of a Fan-Stirred Combustion Vessel, 80: 350
Numerical Simulation of One-Dimensional Laminar Flames Propagating into Reacting Premixed Gases, 80: 385
Erratum: Radial Propagation of Premixed Flames and $\sqrt{t}$ Behavior by J. Buckmaster and G. Joulin. Combustion and Flame 77: 123-138, 80: 415
The Origins of Ionization in the Exhaust Gases of Spark Ignition Engines, 81: 392
Near-Limit Flame Structures at Low Lewis Number, 82: 1
On the Dynamics of Anchored Flames, 82: 51
Combustor Performance Enhancement Through Direct Shear Layer Excitation, 82: 75
Acceleration of a Flame by Flame - Vortex Interactions, 82: 111
Pulse Combustion Modeling Demonstration of the Importance of Characteristic Times, 82: 252
Direct and Indirect Measurements of Markstein Numbers of Premixed Flames, 82: 298

22. FLAMES, PREMIXED
A Flame-Bubble Analogue and Its Stability, 79: 100
Some Properties of Nearly Premixed Laminar Flame Propagation Along Weakly Stratified Layers in Combustible Gas Mixtures, 79: 141
Effect of Rotation on Bunsen Flame, 79: 190
Stability of Homogeneous-Solid Deflagration with Two Phase Flow in the Reaction Zone, 79: 199
In Situ Evaluation of the Soot Refractive Index in the UV - Visible From the Measurement of the Scattering and Extinction Coefficients in Rich Flames, 79: 259
A Model of H_2-Enhanced Spray Combustion, 79: 319
Straining and Scalar Dissipation on Material Surfaces in Turbulence: Implications for Flamelets, 79: 340
The Structure and Stability of Nonadiabatic Flame Balls, 79: 381
The Asymptotic Structure of Weakly Strained Stoichiometric Methane-Air Flames, 79: 402
Chain Mechanisms in the Overall Reaction Orders in Laminar Flame Propagation, 80: 7
Spatially Resolved Flamelet Statistics for Reaction Rate Modelling, 80: 65
Comment on "Pressure-Containing Correlations in Variable Density and Turbulent Reacting Flows," by P. M. Gaskell and A. K. C. Lau, 80: 108
Reply to "Comment on Pressure-Containing Correlations in Variable Density and Turbulent Reacting Flow," by Paul A Libby and K. N. C. Bray, 80: 110
Nitrous Oxide Formation and Destruction in Lean, Premixed Combustion, 80: 238
Turbulent Premixed Combustion: Further Discussions on the Scales of Fluctuations, 80: 304

Optical Investigation of Laser-Produced C_2 in Premixed Sooty Ethylene Flames, 80: 322
Turbulence Characteristics of a Fan-Stirred Combustion Vessel, 80: 350
Oscillatory Velocity Response of Premixed Flat Flames Stabilized in Axial Acoustic Fields, 80: 371
Numerical Simulation of One-Dimensional Laminar Flames Propagating into Reacting Premixed Gases, 80: 385
Erratum: Radial Propagation of Premixed Flames and $\sqrt{t}$ Behavior by J. Buckmaster and G. Joulin. Combustion and Flame 77: 123-138, 80: 415
The Inner Structure of Methane-Air Flames, 81: 96
A Tomographic Study of the Measurements in a V - Shaped H_2/Air Flame and a Lagrangian Interpertation of the Turbulent Flame Brush Evolutuion, 81: 229
Ions and Charged Soot Particles in Hydrocarbon Flames I. Nozzle Beam Sampling: Velocity, Energy and Mass Analysis; Total Ion Concentrations, 81: 289
The Origins of Ionization in the Exhaust Gases of Spark Ignition Engines, 81: 392
Near-Limit Flame Structures at Low Lewis Number, 82: 1
Computer Modeling of Cool Flames and Ignition of Acetaldehyde, 82: 15
Premixed Silane-Oxygen-Nitrogen Flames, 82: 40
On the Dynamics of Anchored Flames, 82: 51
Some Effects of Gravity on the Behavior of Premixed Flames, 82: 66
Combustor Performance Enhancement Through Direct Shear Layer Excitation, 82: 75
Local Fine Flame Structure and its Influence on Mixing Processes in Turbulent Premixed Flames, 82: 93
Spatial Resolution Effects of CARS in Turbulent Premixed Combustion Thermometry, 82: 106
Influence of Equivalence Ratio on the Structure of Low-Pressure Premixed Methanol-Air Flames, 82: 163
On the Flame Propagation in a Rotating Flow Field, 82: 176
Vibrational CARS Thermometry in Sooty Flames: Quantitativ Evaluation of C_2 Absorption Interference, 82: 199
Effects of Thermal Coupling and Diffusion on the Mechanism of H_2 Oxidation in Steady Premixed Laminar Flames, 82: 270
Direct and Indirect Measurements of Markstein Numbers of Premixed Flames, 82: 298
Analysis and Modeling of Nitrous Oxide Chemistry in Lean, Premixed Combustion, 82: 312
Prediction of Flammability Limit of an Unconfined Premixed Gas in the Absence of Gravity, 82: 334
The Velocity of a Premixed Flame as a Function of the Flame Stretch: An Experimental Study, 82: 361

23. FLAMES, TURBULENT
Fractal Behavior of a Wrinkled Annular Diffusion Flame, 79: 7
Chemical Models for Pdf Modeling of Hydrogen-Air Nonpremixed Turbulent Flames, 79: 75
A Turbulent-Combustion Model for Homogeneous Charge Engines, 79: 122
A Soot Formation Rate Map for a Laminar Ethylene Diffusion Flame, 79: 287
Straining and Scalar Dissipation on Material Surfaces in Turbulence: Implications for Flamelets, 79: 340
Spatially Resolved Flamelet Statistics for Reaction Rate Modelling, 80: 65
Comment on "Pressure-Containing Correlations in Variable Density and Turbulent Reacting Flows," by P. M. Gaskell and A. K. C. Lau, 80: 108
Reply to "Comment on Pressure-Containing Correlations in Variable Density and Turbulent Reacting Flow," by Paul A Libby and K. N. C. Bray, 80: 110
Combustion Characteristics of a Model Can-Type Combustor, 80: 111
Enhancement of Flame Blowout Limits by the Use of Swirl, 80: 183
Turbulent Premixed Combustion: Further Discussions on the Scales of Fluctuations, 80: 304
Turbulence Characteristics of a Fan-Stirred Combustion Vessel, 80: 350
The Reynolds-Stress Tensor in Diffusion Flames: An Experimental and Theoretical Investigation, 81: 1
PDF Calculations of Piloted Turbulent Nonpremixed Flames of Methane, 81: 13
Flame Spread in an Opposed Turbulent Flow, 81: 40
Soot Volume Fractions in the Overfire Region of Turbulent Diffusion Flames, 81: 133

Temperature/Soot Volume Fraction Correlations in the Fuel-Rich Region of Buoyant Turbulent Diffusion Flames, 81: 150
A Tomographic Study of the Measurements in a V - Shaped H_2/Air Flame and a Lagrangian Interpertation of the Turbulent Flame Brush Evolutuion, 81: 229
The Local Structure of Turbulent Nonpremixed Flames Near Extinction, 81: 260
Moment Approximations for Probability Density Functions, 81: 378
Local Fine Flame Structure and its Influence on Mixing Processes in Turbulent Premixed Flames, 82: 93
Spatial Resolution Effects of CARS in Turbulent Premixed Combustion Thermometry, 82: 106
Acceleration of a Flame by Flame - Vortex Interactions, 82: 111
The Behavior of a Fuel Oil During the Combustion Cycle of a Direct Injection Diesel Engine, 82: 191
Effect of Damkohler Number on Superequilibrium OH Concentration in Turbulent Nonpremixed Jet Flames, 82: 235
Spatial Averaging Effects in Raman/Rayleigh Measurements in a Turbulent Flame, 82: 411

24. FLAMMABILITY
The Possibility of a Reversal of Material Flammability Ranking from Normal Gravity to Microgravity, 80: 355
Near-Limit Flame Structures at Low Lewis Number, 82: 1
Prediction of Flammability Limit of an Unconfined Premixed Gas in the Absence of Gravity, 82: 334

25. FLUID DYNAMICS, STEADY FLOW
A Flame-Bubble Analogue and Its Stability, 79: 100

26. FLUID DYNAMICS, NONSTEADY AND INSTABILITY
Pulse Combustion: The Quantification of Characteristic Times, 79: 151
Parametric Analysis on the Post-Shock Wave Relaxation Zone of Carbon Particle-Laden Oxygen Gas, 80: 126
Erratum: Hydrodynamic and Reactive/Diffusive Instabilities in a Dynamic Model of Liquid Propellant Combustion - II. Inviscid Fluid Motions, 77: 123-138 (1989), 80: 214
Pulse Combustion: The Mechanisms of NO_x Production, 80: 219
Time-Resolved Gas Temperatures in the Oscillating Turbulent Flow of a Pulse Combustor Tail Pipe, 80: 358
Oscillatory Velocity Response of Premixed Flat Flames Stabilized in Axial Acoustic Fields, 80: 371
Combustor Performance Enhancement Through Direct Shear Layer Excitation, 82: 75
Acceleration of a Flame by Flame - Vortex Interactions, 82: 111
Pulse Combustion Modeling Demonstration of the Importance of Characteristic Times, 82: 252

27. FLUID DYNAMICS, TURBULENT
Straining and Scalar Dissipation on Material Surfaces in Turbulence: Implications for Flamelets, 79: 340
Vented Gas Deflagrations: A Detailed Mathematical Model Tuned on a Large Set of Experimental Data, 80: 49
Comment on "Pressure-Containing Correlations in Variable Density and Turbulent Reacting Flows," by P. M. Gaskell and A. K. C. Lau, 80: 108
Reply to "Comment on Pressure-Containing Correlations in Variable Density and Turbulent Reacting Flow," by Paul A Libby and K. N. C. Bray, 80: 110
The Local Structure of Turbulent Nonpremixed Flames Near Extinction, 81: 260
Moment Approximations for Probability Density Functions, 81: 378
Spatial Averaging Effects in Raman/Rayleigh Measurements in a Turbulent Flame, 82: 411

28. FUELS, OXIDIZERS AND ADDITIVES, NONCONVENTIONAL
Combustion Transfer in Gasless Pyrotechnics, 79: 234
Kinetic Study of the Absolute Rate Constant for the Reaction Between Rb and N_2O by Time-Resolved Atomic Resonance Absorption Spectroscopy, 79: 250
Kinetic Study of the Absolute Rate Constant for the Reaction of $Rb + O_2 + N_2$ Over the Range 709-897 K by Time-Resolved Atomic Resonance Absorption Spectroscopy, 79: 393
On the Vaporization Behavior of Water-in-Oil Microemulsions, 80: 412
Effect of Free-Radical Release on Diesel Igni-

tion Delay under Simulated Cold-Starting Conditions, 81: 242
Experimental and Numerical Studies of the Combustion of Ditertiary Butyl Peroxide in the Presence of Oxygen at Low Pressure in a Mechanically Stirred Closed Vessel, 81: 304
Premixed Disilane-Oxygen-Nitrogen Flames, 81: 317
Temperature Profile and Ignition Delay Studies on Hypergolic Systems, 81: 403
Computer Modeling of Cool Flames and Ignition of Acetaldehyde, 82: 15
Premixed Silane-Oxygen-Nitrogen Flames, 82: 40
Hydroxylammonium Nitrate-Based Liquid Propellant Combustion - Interpretation of Strand Burner Data and the Laminar Burning Velocity, 82: 376

29. HETEROGENEOUS COMBUSTION: AEROSOLS, SPRAYS AND AIRBORNE DUSTS
Evaporation, Ignition, and Combustion of Non-dilute Clusters of Drops, 79: 272
A Model of H_2-Enhanced Spray Combustion, 79: 319
Relation Between Groop Combustion and Drop Array Studies, 80: 313
Analysis of Dropwise Ignition Versus External Ignition for Dilute Multicomponent Fuel Sprays, 81: 59
Description of Sprays Using Joint Hyperbolic Distribution in Particle Size and Velocity, 81: 203
Asymptotic Analysis of the Shock Wave Ignition of Dust Particles, 81: 219
Effect of Free-Radical Release on Diesel Ignition Delay under Simulated Cold-Starting Conditions, 81: 242
Counterflow Spray Combustion Modeling, 81: 325
Ignition of Particle Suspensions in Slab Geometry, 81: 366
The Behavior of a Fuel Oil During the Combustion Cycle of a Direct Injection Diesel Engine, 82: 191
Experimental Exploration of the Thermal Structure of an Array of Burning Droplet Streams, 82: 346
Particle Cloud Flames in Acoustic Fields, 82: 448

30. HETEROGENEOUS COMBUSTION: CATALYTIC COMBUSTION-NONE

31. HETEROGENEOUS COMBUSTION: COAL, CHAR OR CARBON
The Early Stages of the Combustion of Pulverised Coal at High Temperature I: Kinetics of Devolatilisation, 79: 47
Combustion Kinetics of High-Ash Coals in Fluidized Beds, 79: 162
The Combustion of Carbon Monoxide in a Two-Zone Fluidized Bed, 79: 175
New Ignition Phenomenon in Coal Combustion, 79: 214
Evaluation of Reactivity Functions for Coal Combustion from Particle Size Analysis in Backmix Reactors, 79: 307
Ignition Temperature of Pulverized Coal Particles: Experimental Techniques and Coal-Related Influences, 79: 333
Modeling of Oxygen Chemisorption Kinetics on Coal, 80: 83
Parametric Analysis on the Post-Shock Wave Relaxation Zone of Carbon Particle-Laden Oxygen Gas, 80: 126
The Early Stages of the Combustion of Pulverized Coal at High Temperatures II: Measurements of the Size and Composition of the Resulting Char, 80: 170
Stability Analysis of a Simplified Model of a Fluidized Bed Combustor: 80, 399
Effects of the Gas-Phase O_2 Consumption on the Combustion Rate of Solid Carbon, 81: 86
Mechanisms for the Ignition of Pulverised Coal Particles, 81: 119
A Theoretical and Experimental Study of Carbon Combustion in Stagnation Flow, 81: 166

32. HETEROGENEOUS COMBUSTION: SINGLE DROPLET OR PARTICLE
New Ignition Phenomenon in Coal Combustion, 79: 214
Mass and Heat Transfer to an Ellipsoidal Particle, 80: 209
A Mixing and Deformation Mechanism for a Supercritical Fuel Droplet, 81: 50
A Theoretical and Experimental Study of Carbon Combustion in Stagnation Flow, 81: 166
Studies of Influences of Liquid-Phase Species Diffusion on Symmetric Combustion of Miscible Binary Droplets, 81: 277
Droplet Flames in Reactive Environments, 82: 126
Effects of Natural Convection on High -Pressure

Droplet Combustion, 82: 142
LDA Measurement of Fuel Droplet Sizes and Velocities in a Combustion Field, 82: 151

33. HETEROGENEOUS COMBUSTION: SLAB, POOL, FLUIDIZED BED, ETC.
The Ignition of Hydroscopic Combustible Materials by Water, 79: 2
Combustion Kinetics of High-Ash Coals in Fluidized Beds, 79: 162
The Combustion of Carbon Monoxide in a Two-Zone Fluidized Bed, 79: 175
Stability of Homogeneous-Solid Deflagration with Two Phase Flow in the Reaction Zone, 79: 199
Combustion of PMMA, PE, and PS in a Ramjet, 79: 299
Evaluation of Reactivity Functions for Coal Combustion from Particle Size Analysis in Backmix Reactors, 79: 307
A One-Dimensional Model of Piloted Ignition, 80: 94
Effects of Two-Phase Flow in a Model for Nitramine Deflagration, 80: 329
The Effect of Preheating Wood on Ignition Temperature of Wood Char: 80, 395
Stability Analysis of a Simplified Model of a Fluidized Bed Combustor: 80, 399
Flame Spread in an Opposed Turbulent Flow, 81: 40
Effects of the Gas-Phase O_2 Consumption on the Combustion Rate of Solid Carbon, 81: 86
Effects of Melt Viscosity and Thermal Stability on Polymer Gasification, 81: 188
Smoldering Combustion Propagation Through a Permeable Horizontal Fuel Layer, 81: 341
Forced Smolder Propagation and the Transition to Flaming in Cellulosic Insulation, 81: 354
Ignition of Particle Suspensions in Slab Geometry, 81: 366

34. INHIBITION-NONE

35. IONIZATION AND/OR ELECTRICAL EFFECTS
Ions and Charged Soot Particles in Hydrocarbon Flames I. Nozzle Beam Sampling: Velocity, Energy and Mass Analysis; Total Ion Concentrations, 81: 289
The Origins of Ionization in the Exhaust Gases of Spark Ignition Engines, 81: 392

36. KINETICS AND/OR REACTION MECHANISMS, DETAILED
Kinetic Study of the Absolute Rate Constant for the Reaction Between Rb and N_2O by Time-Resolved Atomic Resonance Absorption Spectroscopy, 79: 250
Concentration Measurements of OH· and Equilibrium Analysis in a Laminar Methane-Air Diffusion Flame, 79: 366
Kinetic Study of the Absolute Rate Constant for the Reaction of $Rb + O_2 + N_2$ Over the Range 709-897 K by Time-Resolved Atomic Resonance Absorption Spectroscopy, 79: 393
Chain Mechanisms in the Overall Reaction Orders in Laminar Flame Propagation, 80: 7
Aspects of the Structure and Extinction of Diffusion Flames in Methane-Oxygen-Nitrogen Systems, 80: 17
On Reduced Mechanisms for Methane-Air Combustion in Nonpremixed Flames, 80: 135
Some Remarks on Modeling CSTR Combustion Processes, 80: 256
The Selective Reduction of SO_3 to SO_2 and the Oxidation of NO to NO_2 by Methanol, 81: 30
The Inner Structure of Methane-Air Flames, 81: 96
High Temperature Kinetics of the Reaction $CN+CO_2$, 81: 251
Ions and Charged Soot Particles in Hydrocarbon Flames I. Nozzle Beam Sampling: Velocity, Energy and Mass Analysis; Total Ion Concentrations, 81: 289
Experimental and Numerical Studies of the Combustion of Ditertiary Butyl Peroxide in the Presence of Oxygen at Low Pressure in a Mechanically Stirred Closed Vessel, 81: 304
Computer Modeling of Cool Flames and Ignition of Acetaldehyde, 82: 15
Premixed Silane-Oxygen-Nitrogen Flames, 82: 40
Influence of Equivalence Ratio on the Structure of Low-Pressure Premixed Methanol-Air Flames, 82: 163
Effects of Thermal Coupling and Diffusion on the Mechanism of H_2 Oxidation in Steady Premixed Laminar Flames, 82: 270
Analysis and Modeling of Nitrous Oxide Chemistry in Lean, Premixed Combustion, 82: 312
Asymptotic Structure and Extinction of CO/H_2 Diffusion Flames with Reduced Kinematic Mechanisms, 82: 389
A Reexamination of the RapreNO_x Process, 82: 435
A Direct Comparison of Shock Tube Photolysis

and Pyrolysis in the Determination of the Rate Coefficient for $O + H_2 \rightarrow OH + H$, 82: 445

37. KINETICS AND/OR REACTION MECHANISMS, OVERALL
The Early Stages of the Combustion of Pulverised Coal at High Temperature I: Kinetics of Devolatilisation, 79: 47
Chemical Models for Pdf Modeling of Hydrogen-Air Nonpremixed Turbulent Flames, 79: 75
On Reduced Mechanisms for Methane-Air Combustion in Nonpremixed Flames, 80: 135
Numerical Simulation of One-Dimensional Laminar Flames Propagating into Reacting Premixed Gases, 80: 385
The Inner Structure of Methane-Air Flames, 81: 96
Premixed Disilane-Oxygen-Nitrogen Flames, 81: 317
Effects of Thermal Coupling and Diffusion on the Mechanism of H_2 Oxidation in Steady Premixed Laminar Flames, 82: 270
Asymptotic Structure and Extinction of CO/H_2 Diffusion Flames with Reduced Kinematic Mechanisms, 82: 389

38. POLLUTANTS: INORGANICS AND SOOT
Chemical Aspects of Soot Particles Oxidation in a Laminar Methane-Air Diffusion Flame, 79: 226
In Situ Evaluation of the Soot Refractive Index in the UV - Visible From the Measurement of the Scattering and Extinction Coefficients in Rich Flames, 79: 259
A Soot Formation Rate Map for a Laminar Ethylene Diffusion Flame, 79: 287
Optical Investigation of Laser-Produced C_2 in Premixed Sooty Ethylene Flames, 80: 322
A Model for Soot Formation in a Laminar Diffusion Flame, 81: 73
Soot Volume Fractions in the Overfire Region of Turbulent Diffusion Flames, 81: 133
Temperature/Soot Volume Fraction Correlations in the Fuel-Rich Region of Buoyant Turbulent Diffusion Flames, 81: 150
The Behavior of a Fuel Oil During the Combustion Cycle of a Direct Injection Diesel Engine, 82: 191
Vibrational CARS Thermometry in Sooty Flames: Quantitativ Evaluation of C_2 Absorption Interference, 82: 199
Soot Formation in Long Ethylene Diffusion Flames, 82: 426

39. POLLUTANTS: NO_x
Removal of Nitric Oxide from Exhaust Gas with Cyanuric Acid, 79: 31
Nitrous Oxide Formation and Destruction in Lean, Premixed Combustion, 80: 238
The Selective Reduction of SO_3 to SO_2 and the Oxidation of NO to NO_2 by Methanol, 81: 30
Analysis and Modeling of Nitrous Oxide Chemistry in Lean, Premixed Combustion, 82: 312
A Reexamination of the RapreNO_x Process, 82: 435

40. POLLUTANTS: OTHER
The Selective Reduction of SO_3 to SO_2 and the Oxidation of NO to NO_2 by Methanol, 81: 30

41. PROPELLANTS, PYROTECHNICS AND EXPLOSIVES
Stability of Homogeneous-Solid Deflagration with Two Phase Flow in the Reaction Zone, 79: 199
Combustion Transfer in Gasless Pyrotechnics, 79: 234
Combustion of PMMA, PE, and PS in a Ramjet, 79: 299
Subatmospheric Burning Characteristics of AP/CTPG Composite Propellants with Burning Rate Modifiers, 80: 1
Thermal Decomposition of Energetic Materials 35: A Mechanism Study of Decomposition and the Ignition-Like Transition in Trinitromethyl Alkyl Compounds, 80: 150
Erratum: Hydrodynamic and Reactive/Diffusive Instabilities in a Dynamic Model of Liquid Propellant Combustion - II. Inviscid Fluid Motions, 77: 123-138 (1989), 80: 214
Effects of Two-Phase Flow in a Model for Nitramine Deflagration, 80: 329
Temperature Profile and Ignition Delay Studies on Hypergolic Systems, 81: 403
Hydroxylammonium Nitrate-Based Liquid Propellant Combustion - Interpretation of Strand Burner Data and the Laminar Burning Velocity, 82: 376

42. PYROLYSIS AND THERMAL DECOMPOSITION
Thermal Decomposition of Energetic Materials 35: A Mechanism Study of Decomposition and the Ignition-Like Transition in Trini-

tromethyl Alkyl Compounds, 80: 150
Effects of Melt Viscosity and Thermal Stability on Polymer Gasification, 81: 188
A Direct Comparison of Shock Tube Photolysis and Pyrolysis in the Determination of the Rate Coefficient for $O + H_2 \rightarrow OH + H$, 82: 445

43. RADIATION, SPECTRA AND EXCITED SPECIES
Kinetic Study of the Absolute Rate Constant for the Reaction Between Rb and N_2O by Time-Resolved Atomic Resonance Absorption Spectroscopy, 79: 250
Kinetic Study of the Absolute Rate Constant for the Reaction of $Rb + O_2 + N_2$ Over the Range 709-897 K by Time-Resolved Atomic Resonance Absorption Spectroscopy, 79: 393
Generalized State Relationships for Scalar Properties in Nonpremixed Hydrocarbon/Air Flames, 82: 211

44. SMOLDERING AND LOW TEMPERATURE OXIDATION
The Ignition of Hydroscopic Combustible Materials by Water, 79: 2
Temperature Oscillations During the High Pressure Partial Oxidation of Methane in a Tubular Flow Reactor, 79: 216
Smoldering Combustion Propagation Through a Permeable Horizontal Fuel Layer, 81: 341
Forced Smolder Propagation and the Transition to Flaming in Cellulosic Insulation, 81: 354

45. THERMOCHEMISTRY AND THERMODYNAMICS
Generalized State Relationships for Scalar Properties in Nonpremixed Hydrocarbon/Air Flames, 82: 211

46. TRANSPORT OF HEAT AND MASS
Studies of Influences of Liquid-Phase Species Diffusion on Symmetric Combustion of Miscible Binary Droplets, 81: 277
Pulse Combustion Modeling Demonstration of the Importance of Characteristic Times, 82: 252
Effects of Thermal Coupling and Diffusion on the Mechanism of H_2 Oxidation in Steady Premixed Laminar Flames, 82: 270